	Application No.	Applicant(s)
Notice of Allowability		
	09/625,960 Examiner	AGUILAR ET AL.
	LAGITITIO	Art Silk
	Michael N. Opsasnick	2655
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in thi i) or other appropriate communic RIGHTS. This application is subj	s application. If not included ation will be mailed in due course. THIS
1. This communication is responsive to <u>amendment received on 8/24/05</u> .		
2. The allowed claim(s) is/are <u>1,2,4-9,11 and 13-40</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the:	ınder 35 U.S.C. § 119(a)-(d) or (f	ř).
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892)	5. Notice of Inform	nal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Sum	mary (PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/	/08), 7. ⊠ Examiner's Am	il Date nendment/Comment
Paper No./Mail Date 4.	8. X Examiner's Sta	stement of Reasons for Allowance
of Biological Material	9.	
		N. R. YOUNG MARY EXAMINER

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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Please cancel claims 41-44.

2. This application is in condition for allowance except for the presence of claims 41-44 drawn to a non-elected invention without traverse. Accordingly, claims 41-44 been cancelled.

Allowable Subject Matter

- 3. Claims 1,2,4-9,11,13-40 are allowable over the prior art of record.
- 4. The following is a statement of reasons for the indication of allowable subject matter: As per the independent claims of claims 1,2,4-9,13,14, the claim language pertaining to calculating the ratio of the voiced to unvoiced signals, wherein the lower bands are calculated at a higher resolution than the high band signals and comparing the correlation coefficients with the voicing

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threshold for each segment is not explicitly taught by the prior art of record. Nishiguchi (5765127) breaking into segments (fig 2a); and computing a ratio of voiced to unvoiced segments (col. 2 lines 30-40). As per the independent claims of claims 15-40, the recited limitations of calculating, quantizing, and using a pitch period, a voice probability, a mid-frame pitch period, and a mid-frame voice probability, is not explicitly taught by the prior art of record. Gao (6507814), for example, teaches a LP analysis performed on a subframe basis (performed twice per frame), but only uses one set of values from both sets measured (as pointed to in applicants arguments, pp 20, faxed on 3/7/2005). However, the prior art of record does not explicitly teach the claim limitations found in the independent claims of claim range 1,2,4-9,11,13-40. Furthermore, it would not have been obvious to one of ordinary skill in the art of voice signal processing to modify the teachings of the prior art of record to obtain the recited claim limitations noted above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Opsasnick, telephone number (571)272-7623, who is available Tuesday-Thursday, 9am-4pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Wayne Young, can be reached at (571)272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

mno 9/14/05

PRIMARY EXAMINER